

IN THE CLAIMS:

Please cancel claims 1-12.

Kindly add the following new claims 13-32:

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13. A motor comprising:

- a bracket defining
 - (i) a bearing housing, and
 - (ii) a mounting base for mounting the motor to an apparatus;
- a metal fixed to an inner wall of said bearing housing, wherein said metal is to be impregnated with oil;
- a stator on an outer wall of said bearing housing, said stator including a stator core with a coil therearound;
- a rotor including
 - (i) a frame having in a top surface thereof through-holes,
 - (ii) a shaft fixed to said frame, and
 - (iii) a rotor magnet fixed to said frame; and
- a cap facing said through-holes and spaced axially from said through-holes, said cap being spaced from an outer circumference of said metal and being axially spaced from an end face of said metal, and also being fixed at an internal circumference of said stator core.

14. The motor according to claim 13, wherein said bracket defines said bearing housing and said mounting base by having said bearing housing and mounting base be unitarily formed with said bracket.

15. The motor according to claim 14, further comprising oil impregnated within said metal.

16. The motor according to claim 15, wherein

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said bearing housing comprises a first cylindrical section integrated with said bracket and extending from a central portion of said bracket toward the top surface of said frame, and said frame includes a second cylindrical section integrated with said frame and extending from a central portion of said frame toward said metal.

17. The motor according to claim 15, wherein said cap is fixed at the inner circumference of said stator core by having a body portion of said cap be press-fitted to an inner wall of said stator core while an end portion of said cap is not press-fitted to said inner wall, with said end portion having an end face defining an inner diameter that is less than an inner diameter of said body portion.

18. The motor according to claim 15, wherein said cap is spaced from an outer circumference of said metal such that a radial gap is defined between an outer wall of said metal and an inner wall of said cap.

19. The motor according to claim 15, wherein said cap comprises a magnetic material, and further comprising an attracting magnet positioned outside of said cap.

20. The motor according to claim 19, wherein said cap is fixed at the inner circumference of said stator core by having a body portion of said cap be press-fitted to an inner wall of said stator core while an end portion of said cap is not press-fitted to said inner wall, with said end portion having an end face defining an inner diameter that is less than an inner diameter of said body portion, and with said end face being axially spaced from said frame by a distance that is less than a distance by which an end face of said attracting magnet is spaced from said frame.

21. The motor according to claim 13, wherein said cap includes a lower end surface and said bearing housing includes an upper end surface in contact with said lower end surface of said cap.

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22. A motor comprising:

a bracket including a mounting base for mounting the motor to an apparatus;

a bearing housing fixed to said bracket;

a metal contained in said bearing housing, wherein said metal is to be impregnated with oil;

a stator on an outer wall of said bearing housing, said stator including a stator core with a coil therearound;

a rotor including

(i) a frame having in a top surface thereof through-holes,

(ii) a shaft fixed to said frame, and

(iii) a rotor magnet fixed to said frame; and

an attracting magnet for magnetically attracting said frame, said attracting magnet being on an end face of said stator core such that said attracting magnet faces said through-holes and is axially spaced from said through-holes.

23. The motor according to claim 22, further comprising oil impregnated within said metal.

24. The motor according to claim 23, wherein said frame includes a cylindrical section integrated with said frame and extending from a central portion of said frame toward said metal.

25. The motor according to claim 23, wherein said attracting magnet comprises a sintered magnet of Neodymium-Iron-Boron system.

26. An apparatus comprising:

a housing; and

a motor mounted within said housing via a mounting base, wherein said motor includes

(i) a bracket defining said mounting base and a bearing housing,

(ii) a metal fixed to an inner wall of said bearing housing, wherein said metal is to be impregnated with oil,

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(iii) a stator on an outer wall of said bearing housing, said stator including a stator core with a coil therearound,

(iv) a rotor including

(a) a frame having in a top surface thereof through-holes,

(b) a shaft fixed to said frame, and

(c) a rotor magnet fixed to said frame, and

(v) a cap facing said through-holes and spaced axially from said through-holes, said cap being spaced from an outer circumference of said metal and being axially spaced from an end face of said metal, and also being fixed at an internal circumference of said stator core.

27. The apparatus according to claim 26, wherein said bracket defines said bearing housing and said mounting base by having said bearing housing and mounting base be unitarily formed with said bracket.

28. The apparatus according to claim 27, further comprising oil impregnated within said metal.

29. The apparatus according to claim 28, wherein said cap comprises a magnetic material, and further comprising an attracting magnet positioned outside of said cap.

30. The apparatus according to claim 26, wherein said cap includes a lower end surface and said bearing housing includes a upper end surface in contact with said lower end surface of said cap.

31. An apparatus comprising:

a housing; and

a motor mounted within said housing via a mounting base, wherein said motor includes

(i) a bracket including said mounting base,

(ii) a bearing housing fixed to said bracket,

a' amended with oil,

(iii) a metal contained in said bearing housing, wherein said metal is to be impregnated

(iv) a stator on an outer wall of said bearing housing, said stator including a stator core with a coil therearound,

(v) a rotor including

(a) a frame having in a top surface thereof through-holes,

(b) a shaft fixed to said frame, and

(c) a rotor magnet fixed to said frame, and

(vi) an attracting magnet for magnetically attracting said frame, said attracting magnet being on an end face of said stator core such that said attracting magnet faces said through-holes and is axially spaced from said through-holes.

32. The motor according to claim 31, further comprising oil impregnated within said metal.